

ABSTRACT OF THE DISCLOSURE

Disclosed is an active material for constituting a nickel electrode for alkaline storage batteries which has a high utilization at high ambient temperatures and therefore realizes a battery of higher energy density and a longer cycle life. The nickel electrode active material comprises a nickel hydroxide powder prepared from nickel sulfate and contains SO_4^{2-} at 0.4 wt% or less in the crystal of the powder. The nickel hydroxide is preferably solid solution nickel hydroxide incorporating therein at least one element selected from the group consisting of cobalt, cadmium, zinc and magnesium.